

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/740,332

DATE: 11/13/2001

TIME: 14:38:46

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

3 <110> APPLICANT: Ribozyme Pharmaceuticals Inc.
 5 <120> TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions
 Related to
 6 Hepatitis C Virus Infection
 8 <130> FILE REFERENCE: RPI 400/003
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/740,332 04
 C--> 10 <141> CURRENT FILING DATE: 2001-03-26
 10 <160> NUMBER OF SEQ ID NOS: 9704
 12 <170> SOFTWARE: PatentIn version 3.0
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 17
 16 <212> TYPE: RNA
 17 <213> ORGANISM: artificial sequence
 19 <220> FEATURE:
 20 <221> NAME/KEY: misc_feature
 21 <222> LOCATION:
 22 <223> OTHER INFORMATION: oligonucleotide substrate
 25 <400> SEQUENCE: 1
 26 ugggggacgac acuccac 17
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 17
 31 <212> TYPE: RNA
 32 <213> ORGANISM: artificial sequence
 34 <220> FEATURE:
 35 <221> NAME/KEY: misc_feature
 36 <222> LOCATION:
 37 <223> OTHER INFORMATION: oligonucleotide substrate
 40 <400> SEQUENCE: 2
 41 ggggacgacac uccacca 17
 44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 17
 46 <212> TYPE: RNA
 47 <213> ORGANISM: artificial sequence
 49 <220> FEATURE:
 50 <221> NAME/KEY: misc_feature
 51 <222> LOCATION:
 52 <223> OTHER INFORMATION: oligonucleotide substrate
 55 <400> SEQUENCE: 3
 56 gacacuccac cauagau 17
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 17
 61 <212> TYPE: RNA
 62 <213> ORGANISM: artificial sequence
 64 <220> FEATURE:
 65 <221> NAME/KEY: misc_feature
 66 <222> LOCATION:
 67 <223> OTHER INFORMATION: oligonucleotide substrate
 70 <400> SEQUENCE: 4

ENTERED

p. 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/740,332

DATE: 11/13/2001

TIME: 14:38:46

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

71 acuccaccac agaucac 17
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 17
76 <212> TYPE: RNA
77 <213> ORGANISM: artificial sequence
79 <220> FEATURE:
80 <221> NAME/KEY: misc_feature
81 <222> LOCATION:
82 <223> OTHER INFORMATION: oligonucleotide substrate
85 <400> SEQUENCE: 5
86 caccuagau cacuccc 17
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 17
91 <212> TYPE: RNA
92 <213> ORGANISM: artificial sequence
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION:
97 <223> OTHER INFORMATION: oligonucleotide substrate
100 <400> SEQUENCE: 6
101 cauagauac uccccug 17
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 17
106 <212> TYPE: RNA
107 <213> ORGANISM: artificial sequence
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION:
112 <223> OTHER INFORMATION: oligonucleotide substrate
115 <400> SEQUENCE: 7
116 acuccccugu gaggaac 17
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 17
121 <212> TYPE: RNA
122 <213> ORGANISM: artificial sequence
124 <220> FEATURE:
125 <221> NAME/KEY: misc_feature
126 <222> LOCATION:
127 <223> OTHER INFORMATION: oligonucleotide substrate
130 <400> SEQUENCE: 8
131 ugaggaac uacuguc 17
134 <210> SEQ ID NO: 9
135 <211> LENGTH: 17
136 <212> TYPE: RNA
137 <213> ORGANISM: artificial sequence
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION:
142 <223> OTHER INFORMATION: oligonucleotide substrate

RAW SEQUENCE LISTING

DATE: 11/13/2001

PATENT APPLICATION: US/09/740,332

TIME: 14:38:46

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

```

145 <400> SEQUENCE: 9
146 gaggaacuac ugucuuc 17
149 <210> SEQ ID NO: 10
150 <211> LENGTH: 17
151 <212> TYPE: RNA
152 <213> ORGANISM: artificial sequence
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION:
157 <223> OTHER INFORMATION: oligonucleotide substrate
160 <400> SEQUENCE: 10
161 gaacuacugu cuucacg 17
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 17
166 <212> TYPE: RNA
167 <213> ORGANISM: artificial sequence
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION:
172 <223> OTHER INFORMATION: oligonucleotide substrate
175 <400> SEQUENCE: 11
176 cugucuucac gcagaaa 17
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 17
181 <212> TYPE: RNA
182 <213> ORGANISM: artificial sequence
184 <220> FEATURE:
185 <221> NAME/KEY: misc_feature
186 <222> LOCATION:
187 <223> OTHER INFORMATION: oligonucleotide substrate
190 <400> SEQUENCE: 12
191 gucuucacgc agaaagc 17
194 <210> SEQ ID NO: 13
195 <211> LENGTH: 17
196 <212> TYPE: RNA
197 <213> ORGANISM: artificial sequence
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION:
202 <223> OTHER INFORMATION: oligonucleotide substrate
205 <400> SEQUENCE: 13
206 cgcagaaagc gucuagc 17
209 <210> SEQ ID NO: 14
210 <211> LENGTH: 17
211 <212> TYPE: RNA
212 <213> ORGANISM: artificial sequence
214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
216 <222> LOCATION:

```

RAW SEQUENCE LISTING

DATE: 11/13/2001

PATENT APPLICATION: US/09/740,332

TIME: 14:38:46

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

```

217 <223> OTHER INFORMATION: oligonucleotide substrate
220 <400> SEQUENCE: 14
221 cagaaagcgu cuagcca                                17
224 <210> SEQ ID NO: 15
225 <211> LENGTH: 17
226 <212> TYPE: RNA
227 <213> ORGANISM: artificial sequence
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION:
232 <223> OTHER INFORMATION: oligonucleotide substrate
235 <400> SEQUENCE: 15
236 agcgucuagc cauggcg                                17
239 <210> SEQ ID NO: 16
240 <211> LENGTH: 17
241 <212> TYPE: RNA
242 <213> ORGANISM: artificial sequence
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <222> LOCATION:
247 <223> OTHER INFORMATION: oligonucleotide substrate
250 <400> SEQUENCE: 16
251 gucuagccau ggcguua                                17
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 17
256 <212> TYPE: RNA
257 <213> ORGANISM: artificial sequence
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <222> LOCATION:
262 <223> OTHER INFORMATION: oligonucleotide substrate
265 <400> SEQUENCE: 17
266 uagccauggc guuagua                                17
269 <210> SEQ ID NO: 18
270 <211> LENGTH: 17
271 <212> TYPE: RNA
272 <213> ORGANISM: artificial sequence
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION:
277 <223> OTHER INFORMATION: oligonucleotide substrate
280 <400> SEQUENCE: 18
281 gccauggcgu uaguaug                                17
284 <210> SEQ ID NO: 19
285 <211> LENGTH: 17
286 <212> TYPE: RNA
287 <213> ORGANISM: artificial sequence
289 <220> FEATURE:
290 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING

DATE: 11/13/2001

PATENT APPLICATION: US/09/740,332

TIME: 14:38:46

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

```

291 <222> LOCATION:
292 <223> OTHER INFORMATION: oligonucleotide substrate
295 <400> SEQUENCE: 19
296 uggcguuagu augagug                                     17
299 <210> SEQ ID NO: 20
300 <211> LENGTH: 17
301 <212> TYPE: RNA
302 <213> ORGANISM: artificial sequence
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION:
307 <223> OTHER INFORMATION: oligonucleotide substrate
310 <400> SEQUENCE: 20
311 gcguuaguau gaguguc                                     17
314 <210> SEQ ID NO: 21
315 <211> LENGTH: 17
316 <212> TYPE: RNA
317 <213> ORGANISM: artificial sequence
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION:
322 <223> OTHER INFORMATION: oligonucleotide substrate
325 <400> SEQUENCE: 21
326 uaguaugagu gucgugc                                     17
329 <210> SEQ ID NO: 22
330 <211> LENGTH: 17
331 <212> TYPE: RNA
332 <213> ORGANISM: artificial sequence
334 <220> FEATURE:
335 <221> NAME/KEY: misc_feature
336 <222> LOCATION:
337 <223> OTHER INFORMATION: oligonucleotide substrate
340 <400> SEQUENCE: 22
341 guaugagugu cgugcag                                     17
344 <210> SEQ ID NO: 23
345 <211> LENGTH: 17
346 <212> TYPE: RNA
347 <213> ORGANISM: artificial sequence
349 <220> FEATURE:
350 <221> NAME/KEY: misc_feature
351 <222> LOCATION:
352 <223> OTHER INFORMATION: oligonucleotide substrate
355 <400> SEQUENCE: 23
356 ugagugucgu gcagccu
359 <210> SEQ ID NO: 24
360 <211> LENGTH: 17
361 <212> TYPE: RNA
362 <213> ORGANISM: artificial sequence
364 <220> FEATURE:

```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/740,332

DATE: 11/13/2001

TIME: 14:38:47

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:140333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9352

L:140411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9354

L:140480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9355

L:140543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9356

L:140606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9357

L:140663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9358

L:140732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9359

L:140801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9360

L:140870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9361

L:140939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9362

L:141008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9363

L:141077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9364

L:141146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9365

L:141215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9366

L:141284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9367

L:141353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9368

L:141422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9369

L:141491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9370

L:141560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9371

L:141629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9372

L:141698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9373

L:141767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9374

L:141836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9375

L:141905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9376

L:141974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9377

L:142043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9378

L:142112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9379

L:142181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9380

L:142250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9381

L:142319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9382

L:142388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9383

L:142457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9384

L:142520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9385

L:142589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9386

L:142658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9387

L:142727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9388

L:142796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9389

L:142865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9390

L:142934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9391

L:143003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9392

L:143072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9393

L:143141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9394

L:143210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9395

L:143279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9396

L:143348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9397

L:143417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9398

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/740,332

DATE: 11/13/2001

TIME: 14:38:47

Input Set : N:\COPIES\es.txt

Output Set: N:\CRF3\11132001\I740332.raw

L:143486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9399
L:143555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9400
L:143624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9401
L:143693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9402
L:153329 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9597
L:153410 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9600